

## Material: IS 306

### Standard Specification for Tin Bronze Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 306 Tin Bronze Ingots and Castings

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Ingot and Casting

Chemical Composition			Heat Treatment	
Tin	Sn %	9.500 - 10.500	As-Cast	
Zinc	Zn %	1.500 - 3.000		
Lead	Pb %	1.500 max.		
Nickel	Ni %	1.000 max.		
Iron	Fe %	0.150 max.		
Aluminium	Al %	0.010 max.		
Silicon	Si %	0.020 max.		
Bismuth	Bi %	0.030 max.		
Other	Ot%	0.500 max.		
Copper	Cu %	Balance		
-	-	-	<b>Mechanical Properties</b>	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	260 min.
			Yield Strength in Mpa	120 min.
			Elongation in %	13 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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